

#### ABSTRACT OF THE DISCLOSURE

A pulse detection device has a base plate having a first main surface disposable against a part of a living body during use of the pulse detection device, a second main surface disposed opposite the first main surface, and a channel formed in the second main surface. A first piezoelectric element is disposed in the channel of the base plate for transmitting an ultrasonic signal toward an artery in the living body. A second piezoelectric element is disposed in the channel of the base plate for receiving the ultrasonic signal transmitted by the first piezoelectric element and reflected by the artery.